

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P383302

Luminaire Tested: **GLEON-SA6B-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32663.8 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

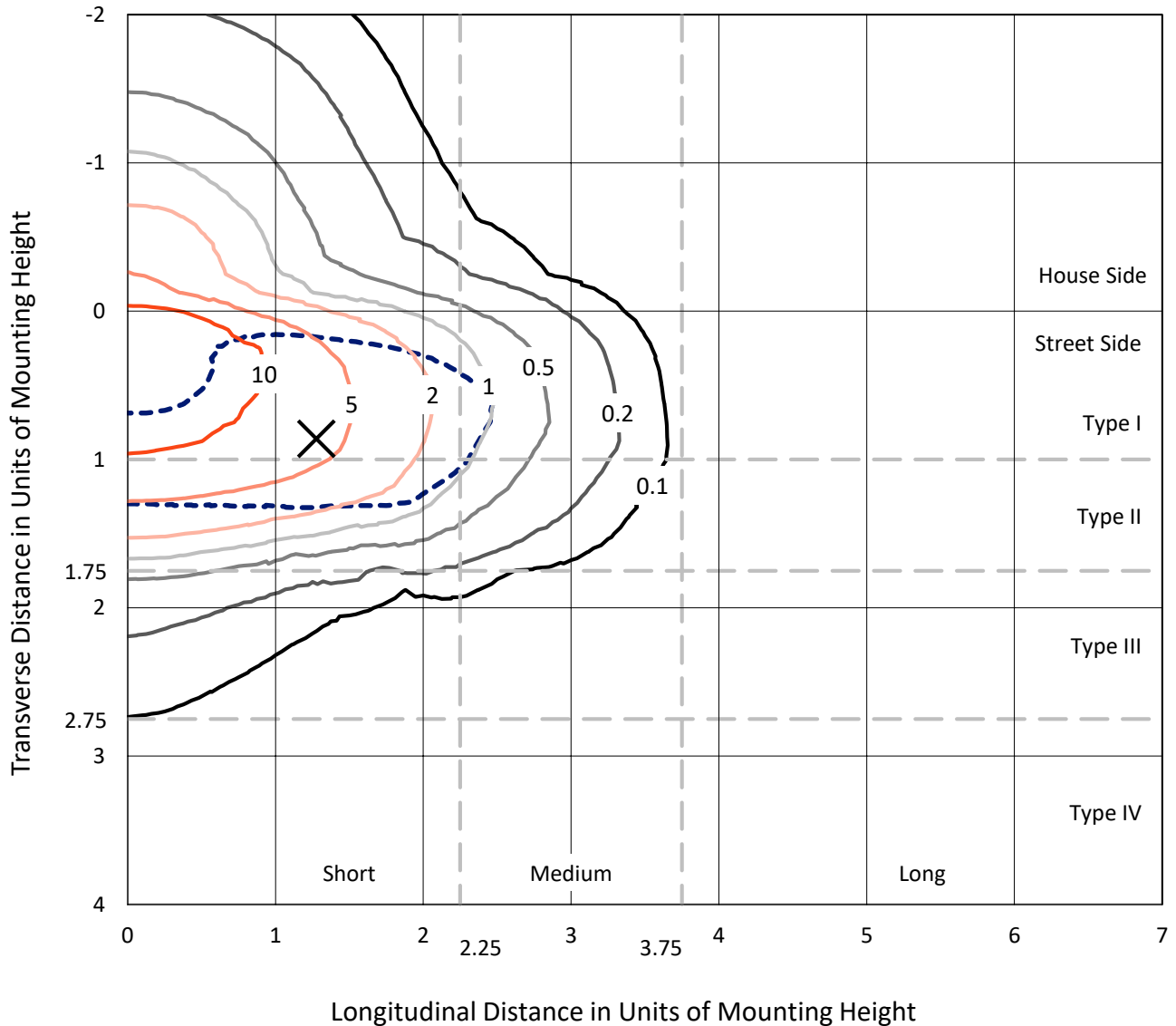
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

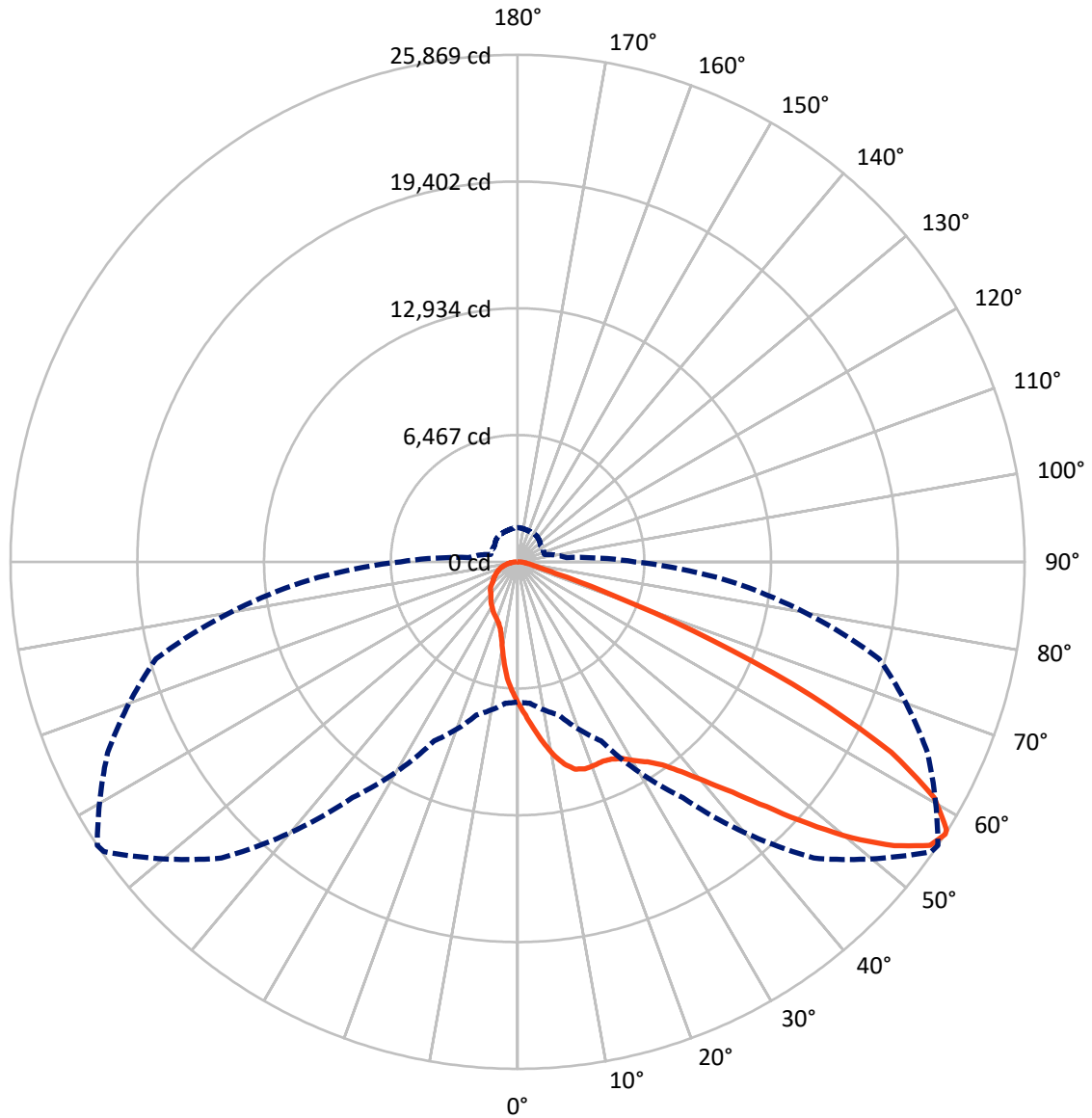
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5630.5	0.0	5630.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	27033.2	0.0	27033.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	32663.8	0.0	32663.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.1	2.1
10°-20°	1956.6	6.0
20°-30°	3187.0	9.8
30°-40°	4764.2	14.6
40°-50°	7226.2	22.1
50°-60°	8099.3	24.8
60°-70°	4783.8	14.6
70°-80°	1567.4	4.8
80°-90°	387.2	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	32663.8	100.0
0°-180°	32663.8	100.0

Coefficient of Utilization

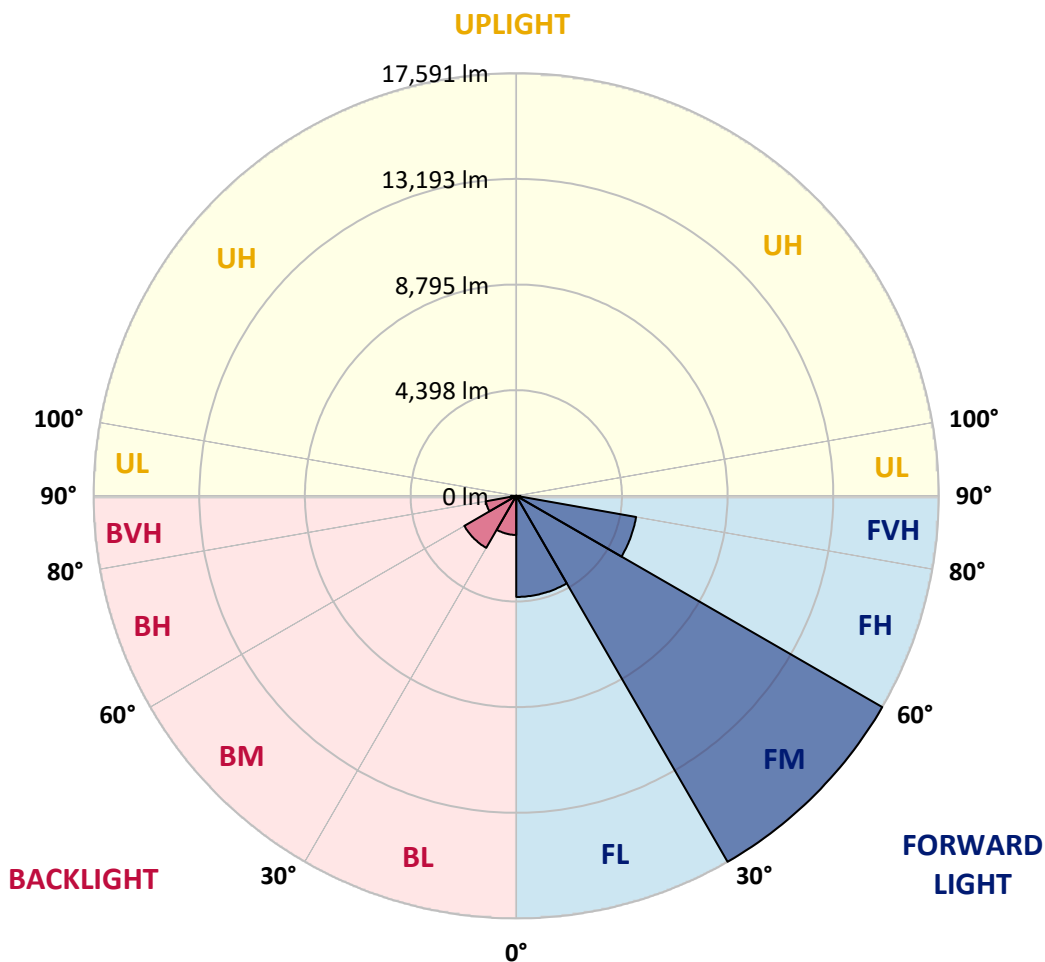


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4207.6	12.9			
FM (30°-60°)	17590.5	53.9			
FH (60°-80°)	5064.6	15.5			G3/7500
FVH (80°-90°)	170.5	0.5			G2/225
BL (0°-30°)	1628.1	5.0	B3/2500		
BM (30°-60°)	2499.2	7.7	B2/2500		
BH (60°-80°)	1286.5	3.9	B3/2500		G3/2500
BVH (80°-90°)	216.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7244.8	7244.8	7244.8	7244.8	7244.8	7244.8	7244.8	7244.8	7244.8	7244.8	7244.8
2.5°	8319.1	8395.5	8361.8	8245.0	8155.2	8028.4	7886.9	7844.3	7695.0	7527.7	7326.8
5°	9635.8	9597.7	9542.7	9360.8	9168.9	8945.5	8590.8	8534.7	8202.4	7824.1	7424.4
7.5°	10385.7	10382.4	10349.8	10243.1	10068.1	9776.2	9348.5	9282.2	8780.5	8172.1	7552.4
10°	10276.8	10269.0	10322.9	10434.0	10486.7	10426.2	10065.8	9999.6	9383.3	8557.1	7700.6
12.5°	9658.3	9662.8	9749.2	9982.7	10300.4	10682.1	10623.7	10591.1	10008.5	8992.7	7880.2
15°	9176.8	9186.8	9255.3	9458.5	9833.4	10526.0	10962.7	10973.9	10613.6	9473.1	8090.1
17.5°	8965.7	8987.0	9018.5	9161.0	9504.5	10215.1	11043.5	11104.1	11143.5	9971.5	8292.2
20°	9033.0	9053.2	9062.3	9153.2	9434.9	10026.5	10987.4	11096.3	11549.8	10440.7	8494.2
22.5°	9335.0	9347.3	9353.0	9376.6	9595.4	10080.4	10950.3	11064.8	11843.9	10861.7	8646.9
25°	9835.7	9826.7	9790.8	9760.5	9907.5	10293.7	11035.7	11144.6	12083.0	11243.3	8746.8
27.5°	10435.1	10423.9	10354.2	10271.2	10355.4	10626.0	11281.5	11368.0	12297.4	11600.3	8797.3
30°	11154.6	11125.5	10994.1	10895.4	10927.9	11124.4	11686.7	11765.4	12628.5	12005.5	8846.7
32.5°	11986.4	11955.0	11765.4	11601.4	11601.4	11765.4	12104.3	12169.5	12909.2	12463.5	8926.5
35°	13028.2	12988.8	12741.9	12466.9	12389.5	12472.5	12673.4	12719.4	13414.3	13040.5	9071.2
37.5°	14256.2	14203.5	13883.5	13515.4	13345.8	13341.3	13486.2	13580.5	14221.5	13798.3	9317.1
40°	15487.6	15450.6	15171.1	14881.5	14549.2	14442.5	14665.9	14695.2	15276.6	14738.9	9631.4
42.5°	16439.6	16432.9	16381.2	16419.4	16079.3	15863.7	16038.8	16062.4	16565.2	15757.0	9965.9
45°	16942.4	16953.7	17204.0	17758.6	17884.2	17727.1	17813.5	17820.3	18038.0	16784.2	10272.4
47.5°	16539.4	16597.8	17230.9	18471.4	19500.7	20022.7	19879.0	19962.0	19465.9	17666.5	10512.6
50°	14969.0	15040.9	16118.5	18153.7	20255.1	22244.2	22169.0	22149.9	20617.7	18313.1	10642.7
52.5°	13023.7	13079.8	13968.8	16502.5	19701.7	23472.3	24162.6	24063.8	21641.4	18796.9	10667.4
55°	10061.3	10148.8	11000.8	13206.6	17463.4	23003.1	25628.6	25540.0	22574.2	19050.6	10638.3
57°	7152.8	7244.8	8091.2	10079.3	14690.7	21378.7	25774.6	25868.9	23078.3	19093.3	10670.9
57.5°	6382.8	6477.1	7315.5	9246.4	13826.3	20791.7	25648.9	25806.0	23169.2	19086.5	10688.8
60°	3213.8	3249.7	3784.0	5161.4	8740.1	16808.8	24008.9	24414.1	23251.1	18756.5	10766.3
62.5°	1998.1	1972.3	1955.5	2377.5	4252.1	11146.8	20624.4	21404.5	21683.0	17957.3	10578.7
65°	1756.8	1708.5	1523.3	1489.6	1878.0	5414.0	15531.4	16502.5	18332.2	16697.7	10132.0
67.5°	1650.1	1603.0	1394.2	1268.5	1269.6	2146.3	9642.6	10736.0	14280.9	14568.3	9077.9
70°	1540.1	1497.5	1302.1	1154.0	1081.0	1188.7	4436.3	5265.9	9309.2	11451.0	7587.3
72.5°	1398.7	1369.5	1184.3	1031.6	954.2	890.2	1698.4	2006.0	5389.3	7690.5	5269.2
75°	1250.5	1223.6	1065.3	919.3	825.1	700.4	956.4	1030.5	2737.9	3934.5	2594.2
77.5°	1087.8	1072.0	947.4	812.7	737.5	580.4	676.9	712.8	1174.2	1687.2	1301.0
80°	865.5	895.8	828.4	724.0	654.4	464.7	479.3	502.9	683.7	824.0	738.6
82.5°	563.5	616.3	648.8	588.2	538.8	365.9	344.6	354.7	445.7	502.9	321.0
85°	234.7	263.8	426.6	385.0	358.1	267.2	231.2	235.8	276.1	286.3	131.3
87.5°	104.4	111.1	187.4	176.2	151.6	92.0	98.7	107.8	147.1	139.2	50.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7244.8	7244.8	7244.8	7244.8	7244.8	7244.8	7244.8	7244.8	7244.8	7244.8	7244.8
2.5°	7251.6	7157.3	6995.6	6817.2	6671.3	6554.5	6436.6	6355.8	6261.5	6211.0	6185.2
5°	7257.2	7072.0	6731.8	6382.8	6070.7	5785.6	5513.9	5305.1	5109.8	5004.3	4975.1
7.5°	7280.8	7002.4	6452.4	5877.6	5323.0	4816.8	4426.2	4181.4	4005.2	3926.7	3904.2
10°	7299.9	6920.5	6106.6	5255.7	4501.3	3988.4	3685.3	3548.4	3487.7	3477.7	3467.5
12.5°	7344.8	6836.3	5742.9	4606.9	3862.7	3507.9	3402.4	3393.4	3410.3	3435.0	3435.0
15°	7415.5	6753.2	5327.5	4050.1	3456.3	3331.7	3353.0	3402.4	3448.4	3486.6	3492.2
17.5°	7467.1	6651.1	4880.8	3604.4	3239.6	3273.4	3349.7	3419.2	3466.4	3503.5	3506.8
20°	7504.2	6492.8	4403.7	3264.3	3115.0	3219.4	3314.8	3376.6	3409.2	3446.2	3451.8
22.5°	7485.1	6280.6	3980.5	3020.7	3014.0	3140.9	3231.8	3305.9	3281.2	3245.2	3268.8
25°	7393.0	5988.7	3545.0	2838.9	2907.4	3035.4	3147.6	3098.2	3015.1	2999.4	3008.4
27.5°	7229.2	5616.0	3142.0	2670.6	2783.9	2937.6	2930.9	2881.6	2852.4	2832.2	2844.5
30°	7052.9	5211.9	2789.5	2523.5	2646.9	2773.8	2748.0	2746.9	2717.7	2685.1	2700.8
32.5°	6878.9	4805.6	2510.0	2402.3	2543.7	2560.5	2616.6	2633.5	2576.2	2507.7	2503.3
35°	6727.4	4421.7	2297.8	2292.3	2419.0	2421.3	2503.3	2479.7	2337.2	2266.4	2266.4
37.5°	6614.0	4038.9	2136.2	2193.4	2255.2	2313.6	2355.0	2257.4	2233.9	2194.5	2193.4
40°	6564.6	3702.2	2035.2	2118.2	2139.6	2213.6	2107.0	2145.2	2156.4	2136.2	2136.2
42.5°	6513.0	3409.2	1947.6	2061.0	2057.6	2047.5	1993.6	2043.0	2087.9	2089.1	2085.6
45°	6461.3	3156.5	1870.2	1938.6	1985.8	1876.9	1886.9	1939.8	2002.6	2025.1	2025.1
47.5°	6404.1	2956.7	1799.5	1809.5	1882.5	1809.5	1801.7	1842.0	1916.2	1952.1	1960.0
50°	6278.4	2777.1	1718.6	1696.2	1716.4	1741.1	1747.8	1766.9	1848.8	1906.0	1919.5
52.5°	6104.3	2616.6	1615.3	1591.7	1591.7	1684.9	1716.4	1722.0	1791.6	1860.0	1873.5
55°	5959.6	2514.5	1508.7	1504.2	1499.7	1625.5	1679.3	1688.3	1736.6	1790.4	1797.1
57°	5969.6	2506.6	1426.8	1431.2	1430.1	1564.8	1644.6	1663.6	1688.3	1734.4	1742.2
57.5°	5975.2	2512.2	1408.8	1411.0	1409.9	1548.0	1634.4	1655.7	1674.8	1723.1	1730.9
60°	6059.4	2526.8	1335.8	1311.2	1316.7	1458.2	1577.2	1604.1	1616.4	1680.4	1690.6
62.5°	5934.9	2461.7	1277.4	1218.0	1218.0	1363.9	1497.5	1540.1	1559.2	1645.7	1662.4
65°	5573.4	2278.8	1209.0	1112.5	1123.6	1269.6	1402.1	1471.7	1500.8	1608.6	1626.6
67.5°	5015.5	2066.5	1136.0	1018.2	1029.4	1170.8	1303.2	1378.5	1424.5	1568.2	1582.8
70°	4289.2	1807.3	1037.2	918.2	931.7	1063.1	1186.5	1271.8	1340.3	1530.0	1534.5
72.5°	3162.2	1481.7	899.1	808.2	822.8	937.3	1068.7	1167.4	1259.5	1434.6	1432.3
75°	1880.2	1158.5	746.4	697.1	707.2	813.8	962.0	1082.1	1220.2	1397.6	1418.9
77.5°	1140.5	872.2	608.4	583.7	596.1	705.0	885.7	1013.6	1203.4	1317.9	1311.2
80°	689.3	623.0	486.1	470.3	482.7	602.8	819.5	962.0	1051.8	1125.9	1125.9
82.5°	360.3	380.5	357.0	344.6	361.4	489.4	745.3	839.7	929.5	798.1	745.3
85°	147.1	198.7	216.7	215.6	225.6	339.0	643.2	718.4	599.5	569.1	582.6
87.5°	49.4	84.2	105.5	90.9	95.4	213.3	445.7	346.9	411.9	287.4	272.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)